Spencer Eanes

spencer.eanes@gmail.com | 847.730.7247 | 1729 Seward St., Evanston, IL 60202

EDUCATION

ST. OLAF COLLEGE

Northfield, MN Graduation: May 2020

DEGREES

B.A. Mathematics B.A. Computer Science Concentration in Statistics & Data Science

OVERALL

Cum. GPA: 3.88 / 4.0 Dean's List: All semesters to date

EVANSTON TWP. HS

EVANSTON, IL.

ACT: 34 Graduated May 2016 with High Distinction

COURSEWORK

In Progress

Differential Equations 2 Adv Statistical Modeling

COMPLETED

Algrms for Decision Making Algrms & Data Structures Statistical Modeling Data Management Linear Algebra Calculus I-III

SKILLS

LANGUAGES

R • Python • SQL Mathematica • C++ **Tools**

Bash • Git • LaTeX

OTHERS

EXTRACURRICULARS

Studied abroad in Aberdeen, Scotland **REAL Training Tutoring** Stewardship Assistant

LINKS

SpencerEanes.org linkedin.com/in/SpencerEanes github.com/SpencerEanes

EXPERIENCE

ZS ASSOCIATES | Decision Analytics Associate Intern JUNE - AUG 2019 | EVANSTON, IL

- Measured the business impact of a >\$100 million dollar patient services program of a F200 biopharma using test-control analyses on claim and patient level data.
- Created long-term forecast for the new formulation of a blockbuster immunology product; results presented to a brand senior VP.
- Communicated effectively in person and by email in client interactions, project presentations, and work handoffs with the India team.

NATL. CENTER FOR EDUCATION STATISTICS | JPSM JUNIOR FELLOW MAY - AUG 2018 | WASHINGTON, DISTRICT OF COLUMBIA

- Selected by University of Maryland Joint Program in Survey Methodology for Junior Fellow summer position, interning at NCES.
- Statistically analyzed federal datasets, 2015-16 School Survey on Crime and Safety and 2016 National Household Education Survey. Publication on cyberbullying and cell phone use from NCES in January 2019.

ST. OLAF CENTER FOR UNDERGRADUATE RESEARCH | RESEARCHER MAY - AUG 2017 | NORTHFIELD, MN

- 10-week team oriented research experience. Research was presented at the Northfield Research Colloquium and the Midstates Math Consortium.
- Investigated the use of lie symmetries in the invariantization of numerical schemes, and compared the accuracy of invariant vs. non-invariant numerical schemes applied to differential equations.

PROJECTS

POLYGON VISIBILITY WEB APP | DEVELOPER

MAY 2019 | COMPUTATIONAL GEOMETRY FINAL PROJECT

Implemented a fast polygon visibility graph algorithm to compute visibility edges between vertices of polygons in $O(n^2 log n)$ time. Built code in R using the SF package, and created a RShiny interactive web application, available at Spencer Eanes.org. Paper and code available at github.com/SpencerEanes.

MMA CLUSTERING ANALYSIS | ANALYST

MAY 2019 | ALGORITHMS FOR DECISION MAKING FINAL PROJECT

Scraped data on over 3000 UFC fighters from ufcstats.com using R. Cleaned and formatted the dataset and performed principal component analysis. Compared k-means clustering and hierarchical clustering, and predicted fighters win-loss ratio using penalized logistic regression. Results available at SpencerEanes.org.

COMAP ICM 2018 PROBLEM D | TEAM MEMBER

Developed a mathematical model for optimal placement of electric vehicle charging stations and proposed a plan to convert a nation from gas to electric vehicles.

AWARDS

	2018	International	CoMAP ICM Competitor, Honorable Mention
	2017	National	USCLAP Introductory Statistics First Prize Winner
S	2016	Institutional	St. Olaf Buntrock Scholar, Highest Academic Scholarship
	2016	National	National Merit Commended Scholar